

ABSTRACT OF THE DISCLOSURE

A cobalt-iron alloy film having saturation magnetization of at least about 2.30 Telsa. The film alloy includes about 55 wt% to about 75 wt.% iron and the remainder cobalt. The film is made by a process in which the film is electrodeposited from an aqueous medium which includes one or more ferrous salts, one or more cobaltous salts, a buffer having a pKa of about 6 to about 8, at least one carboxylic acid having a pKa of between about 3.5 and about 5.5, an aromatic sulfinic acid or its salt and optionally, a halide salt and/or a surfactant. The alloy film is useful as a write head in magnetic recording.